5 x 1.5 Ti coll /well in Epon + 52 Boiled F.C.S. Died pertition to a find Conc. of 100 mm Leave to binding at 37°C of work X.I. with PBS + 2. % C.Cs.

Apply ma AZ - Arb HBJR. HBIT 30

- Apply GAM FITC 0250)

Risuspend cells in PBS : (400ml).

De 3 4 80 **HB**117

HPVE7/86-93 ويد ، (مع) 8/62 HRV 144, 30° At

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#30177 73.01

74.03. -int 1 (225-

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PAGE 19/30 * RCVD AT 3/14/2006 10:52:56 AM [Eastern Standard Time] * SVR:USPTO-EFXRF-3/16 * DNIS:2738300 * CSID: * DURATION (mm-ss):08-28

to, 17 126 187 225 235 280 641 APVE7 86-93 HBV 17-28 plate (U bottomed), from 100,00M of first column.

to Column 11 .0.0001 um) in 50,00 medum.

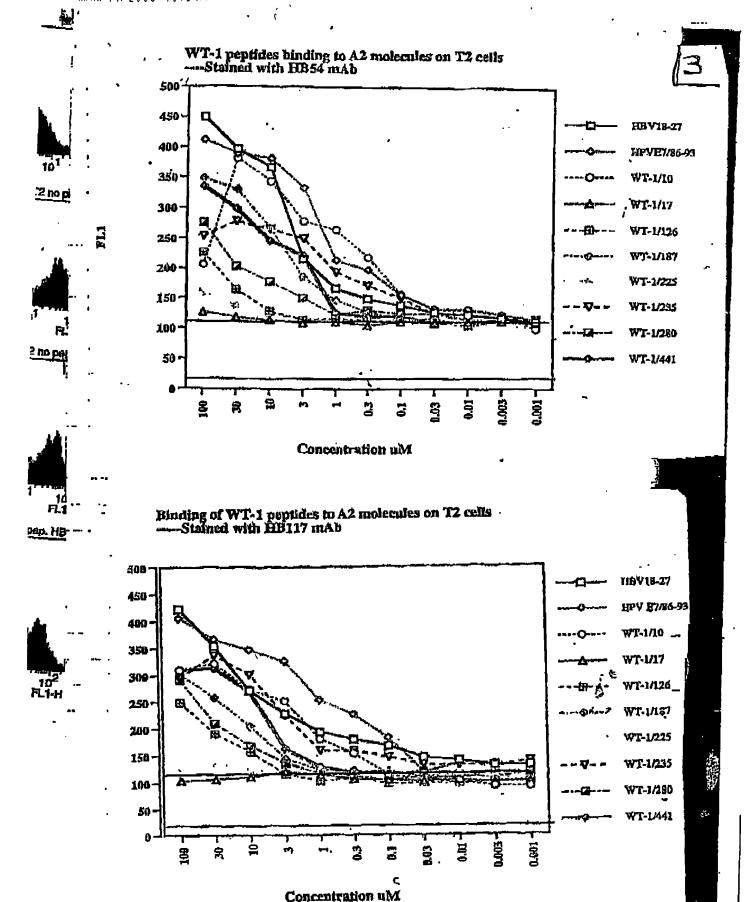
Odd Sobul of T2 odd at a conc of 6x106/1/2.

- 5x105/sel nix -odd. 37°C soonsput. . wash x 1 to PBC (cold) + 18 FCJ Starno & XB 117 and HB54 (pant college She) Iron. for 30' on 100. - sophy fam ig FITC at 1/250 (soul) weal x 3

Good See attached Shoets.

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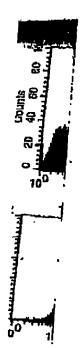


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-PAGE 22/30 * RCVD AT 3/14/2006 10:52:56 AM [Eastern Standard Time] * SVR:USPTO-EFXRF-3/16 * DNIS:2738300 * CSID: * DURATION (mm-ss):08-28

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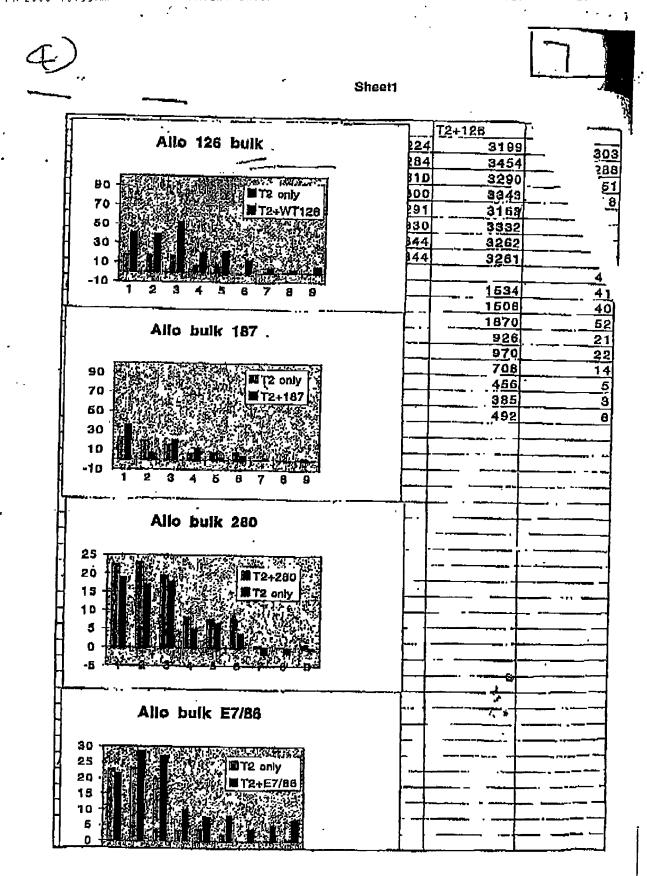


Protocol for peptide specific allorestricted human CTL

1. Prepare stimulator cells; in case of T2 stimulators preincubate o/n 106 cells/ml/well in x24 well plates in RPMI medium plus 5% boiled (10 min) FCS with 100 uM peptide. If allo Dc are used as stimulators, allo DC from A2 +ve individuals can be separated as following:

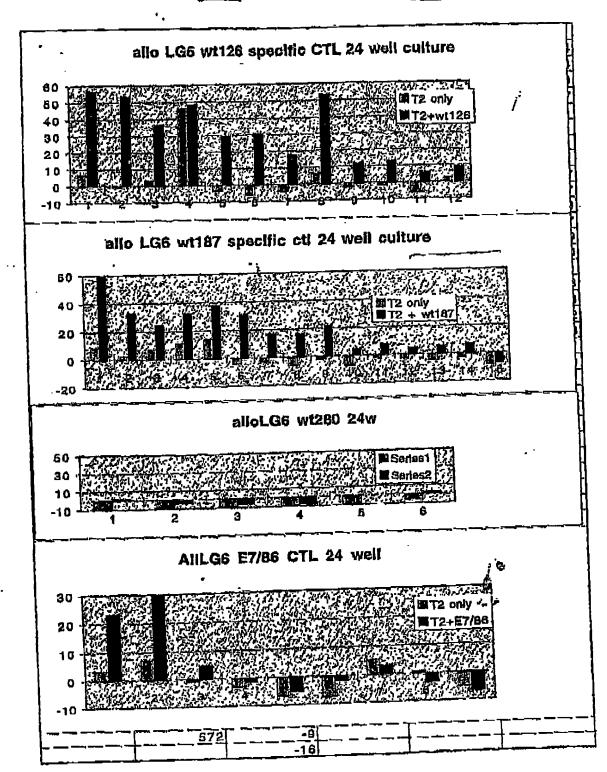
Incubate A2+ PBMC at 37°C O/N, harvest nonadherent cells, resuspend in RPMI+9%FCS at 5X10⁶ /ml and layer onto metrizadime gradient carefully, spin at 1500 for 10 min and harvest the interface (30% low density DC, 20% recovered from PBMC counts). Wash X3 with modium, resuspend at 10 ml, add peptides to a final cone of 50uM and incubate at 37°C for the 13000 me peptides.

- 2. Separate blood by Ficoli centrifugation, wash twice, count, make sure that cells are HLA-A2 negative (by staining with HR54 and HB117 antibodies)
- 3. Plate 2x106 effectors and 2x10⁵ stimulators per well in x24 well plates in culture medium (RPMI 1640, 10% FCS, 1% glutamine, 1% pen/strept 5x10-5 M 2-ME) with 500 nM peptide
- 4. On day 4 prepare stimulators as described in 1. if required. It may be not necessary to preincubate C1RA2 cells for more than 2 hrs
- 5. On day 5 harvest cells, count spin and seed 5×10^5 effectors, 2×10^6 irradiated (about 3000 rad) HLA-A2 negative autologous feeders, 2×10^5 peptide loaded and irradiated (about 10000 rad) T2 or C1RA2 cells and 500 nM peptide in 2ml of the culture medium with 10u/ml H-2, 2.5ng/ml (1/2000 of the stock of 5ug/ml) and with 10% of Q12054 culture sup (anti-CD4 antibodies) (complete medium)
- 6. 14 days (and further every 2 weeks) later restimulate cultures as described in 5. Cell recovery is usually 200%
- 7. On day 5 analyse peptide specificity in a 51Cr release assay using T2 or mouse cells transfected with A2 molecule as CTL targets and cold K562 cells as NK targets (f0 per 1 labelled target). Use 0.7% TFA for max release instead of 0.5% SDS. Significant peptide specificity is detectable after 5-7 week in culture with E:T ratio 10:1
- 8. Peptide specific cultures can be cloned seeding 1, 10 and 100 cells/well in round bottom x96 well plates in complete culture medium with 104



18

Sheet1



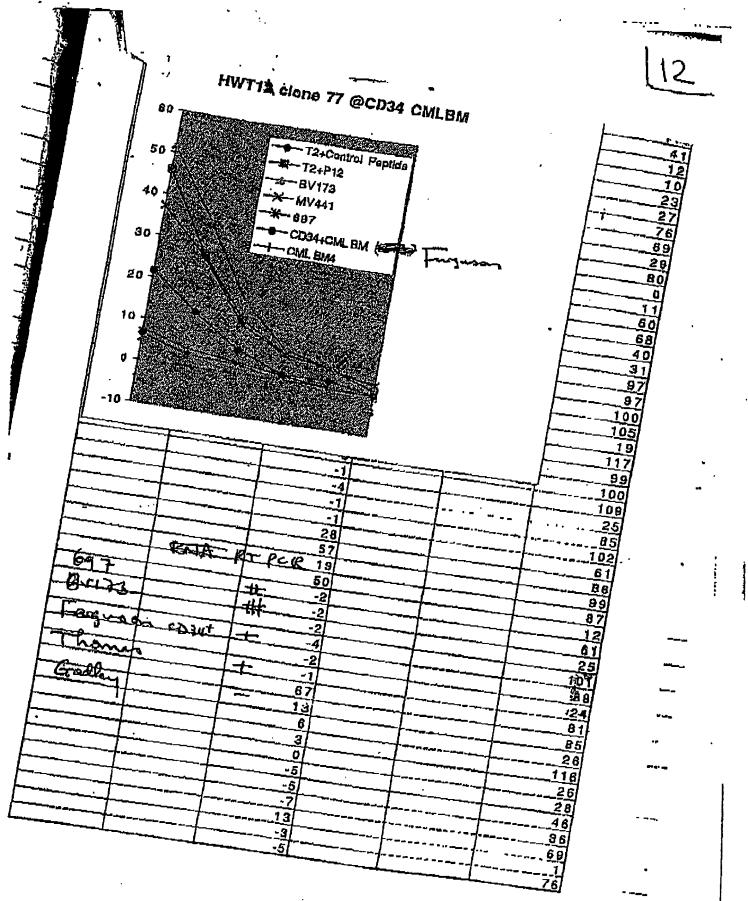
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T2+126 K+62

KO-62 AZ

10

Sheet1 hWT126 clone77 hWT126 clone 81 -K562 T2+hw1 60 20 T2+E7 T2+E7 -K582A2 K562A HWT126 CLONE85 HWT126 CLONE62 80 60 40 Series1 T2+126 30 T2+128 K582 20 K562) - K582A2 K562A2 HWT126 CLONE 65 HWT126 CLONE1 100 60 80 50 80 K662 T2+E7 40 T2+128 30 T2+126 K582 T2+E7 20 -K582A2 ?(-- К582́А́Р 1199.2 907.4 979.2

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